

## Aberystwyth University

### *VaPaR in the CLOUD: Information Governance and Assurance*

Ferguson-Boucher, Kirsten Anne

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# VaPaR in the CLOUD: Information Governance and Assurance

Kirsten Ferguson-Boucher

Department of Information Studies

Aberystwyth University

The Future of Information Governance  
London March 2012

# VAPOUR in the CLOUD: IGA

- The Cloud
- Value
- Alignment
- Assurance
- Performance
- Risk

# VAPOUR in the CLOUD: IGA

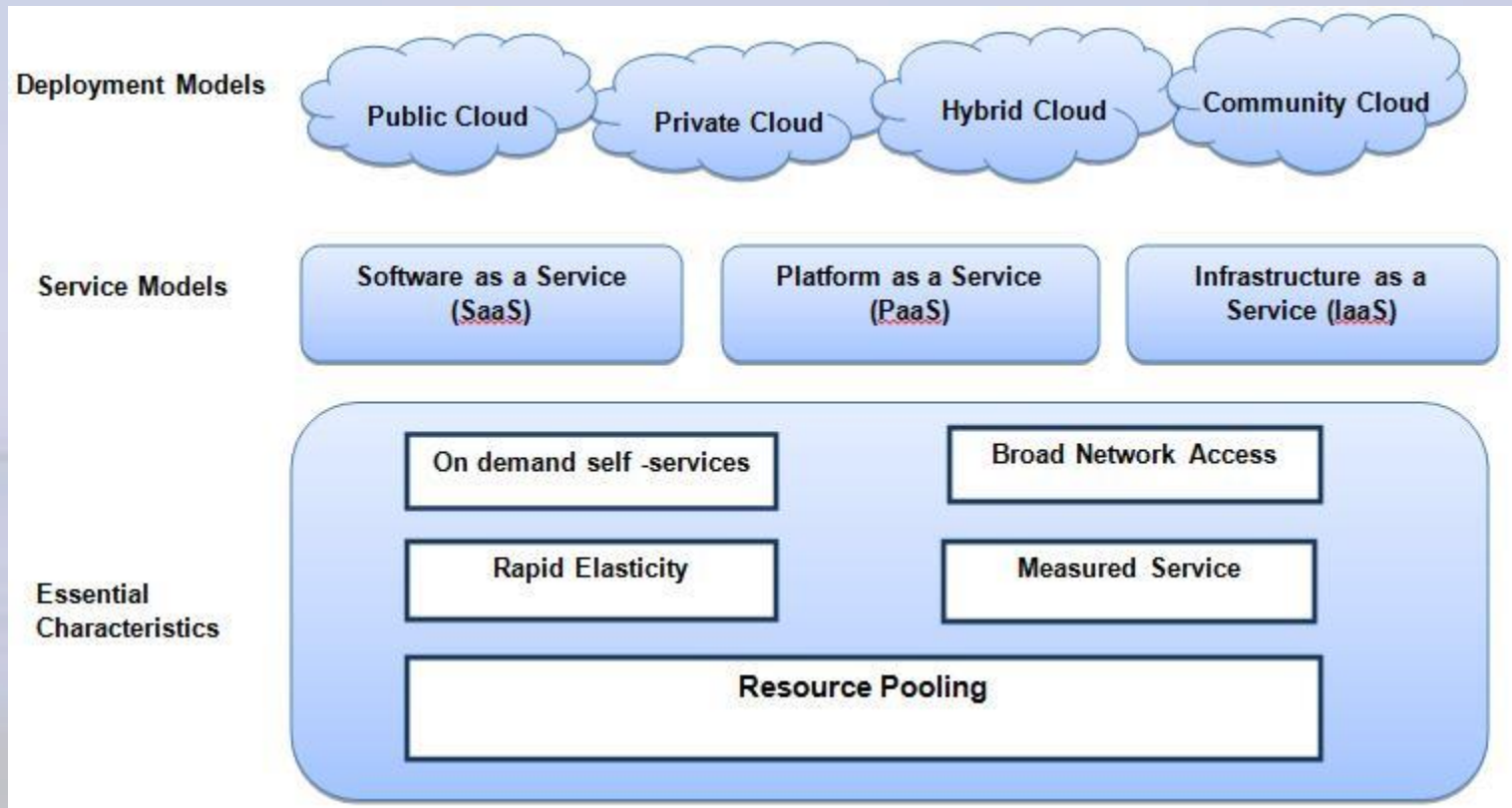
a pay-per-use model for enabling ubiquitous,  
convenient, on-demand network access to a  
shared pool of configurable computing  
resources that can be rapidly provisioned and  
released with minimal management effort or  
service provider interaction

The NIST DEFINITION OF CLOUD COMPUTING Jan 2011 Mell and Grance

[http://csrc.nist.gov/publications/drafts/800-145/Draft-SP-800-145\\_cloud-definition.pdf](http://csrc.nist.gov/publications/drafts/800-145/Draft-SP-800-145_cloud-definition.pdf)



# VAPOUR in the CLOUD: IGA



Adapted from NIST. (2009) *Presentation on Effectively and Securely Using the Cloud Computing Paradigm v26*. Online: <http://csrc.nist.gov/groups/SNS/cloud-computing>

# VAPOUR in the CLOUD: IGA

## PRO's

- Reduced ICT spending
- Higher flexibility and scalability
- Ease of use
- Improved reliability and security of scale
- Modernisation of business processes
- Business continuity/disaster recovery

## CON's

- **cloud specific costs**
- **cost versus benefits**
- **interoperability?**
- **out with organisations' control and limited redress**
- **customisation?**
- **sufficient for legal and regulatory compliance?**

# VAPOUR in the CLOUD: IGA

IGA:	ISO 15489	ADMISSABILITY	IA
<ul style="list-style-type: none"><li>• Value</li><li>• Alignment</li><li>• Assurance</li><li>• Performance</li><li>• Risk</li></ul>	<ul style="list-style-type: none"><li>• Authenticity</li><li>• Reliability</li><li>• Integrity</li><li>• Usability</li></ul>	<ul style="list-style-type: none"><li>• Authenticity</li><li>• Accurate</li><li>• Complete</li></ul>	<ul style="list-style-type: none"><li>• Confidentiality</li><li>• Integrity</li><li>• Availability</li><li>• Authentication</li><li>• Non-repudiation</li></ul>

**Information Governance and Assurance**

# VAPOUR in the CLOUD: IGA



A vertical diagram consisting of five white circles connected by a dark blue line. Each circle is positioned to the left of a horizontal blue bar. The bars contain white text describing the components of IGA.

**Value: classification, appraisal, access, preservation**

**Alignment: legal, structure, system and business**

**Assurance: authenticity, availability, reliability, integrity, confidentiality**

**Performance: effective, efficient, sufficient and innovative**

**Risk: likelihood, severity, mitigation adequacy and impact**



# VAPOUR in the CLOUD: IGA

## Aberystwyth Cloud research

- Investigate the management , operational and technical issues surrounding the storage of information in the cloud and provide an overview of Cloud Computing uses and challenges relating to common **records keeping practices**
- “Storing Information in the Cloud Unconference: Manchester, England  
<http://vimeo.com/12729777>

# VAPOUR in the CLOUD: IGA

## Aberystwyth Cloud research

Destruction of data

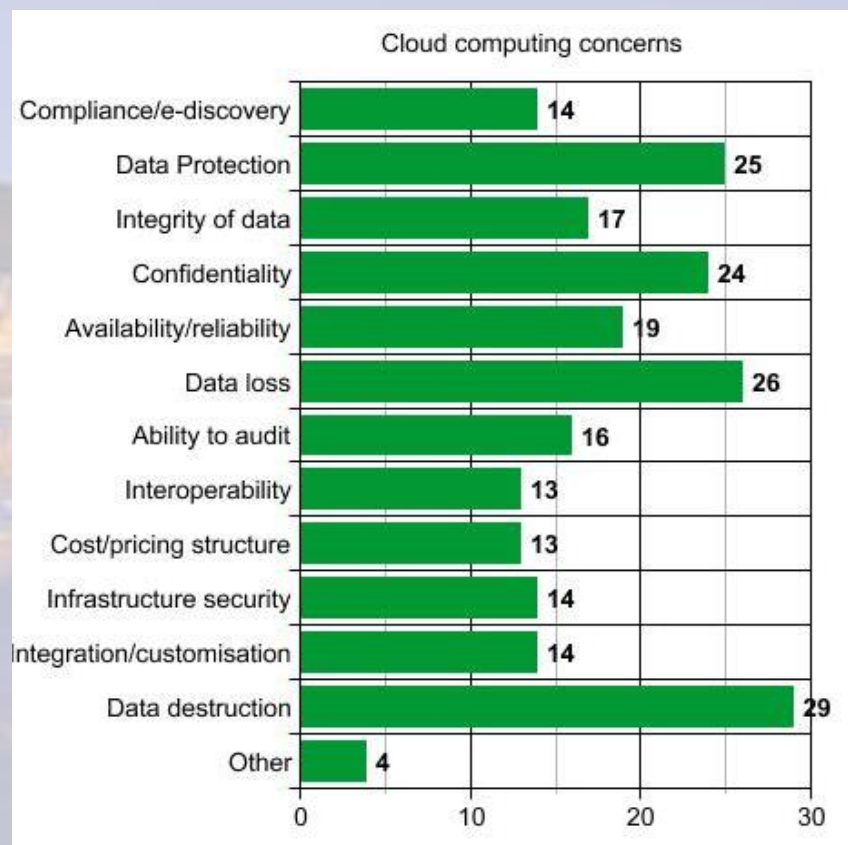
Loss of control over data

Data protection

Confidentiality

Availability of service

Integrity/security?



# VAPOUR in the CLOUD: IGA

## Challenges/Implications

- Deleted data?
- Encrypted data?
- Location of data?
- Segregation of data?
- Nature of multi tenancy, multi jurisdictional virtual environments

# The CIAC



## International

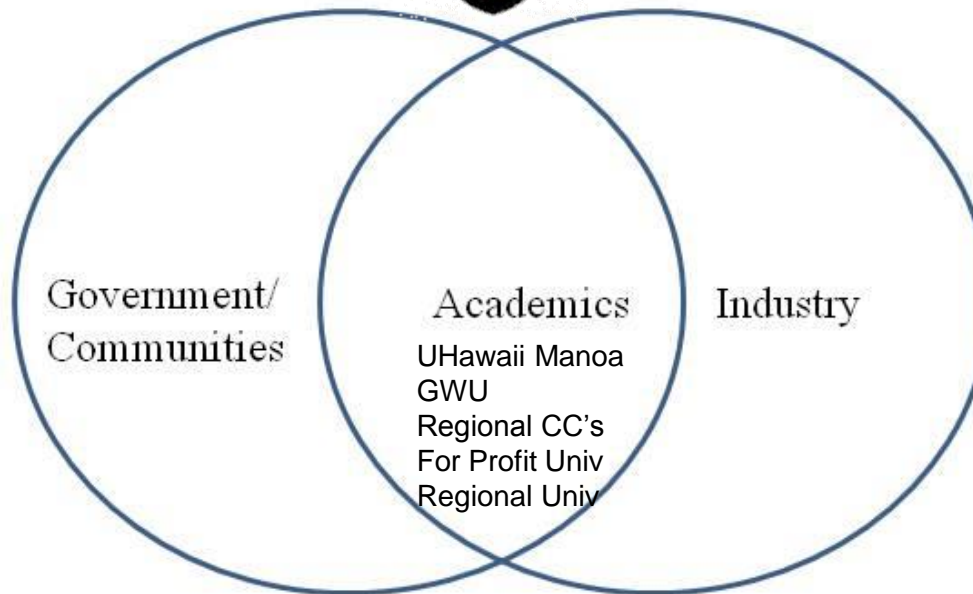
Aberystwyth, Wales  
UBC, Vancouver  
DGIST, S Korea

## National

PNNL  
NSA  
DC3  
GHRI-SHARP

## Local

APL  
PRIZM, City Light  
Port of Seattle  
Port of Tacoma



## Public Companies

Microsoft  
Amazon  
Booz Allen  
Boeing  
TMobile

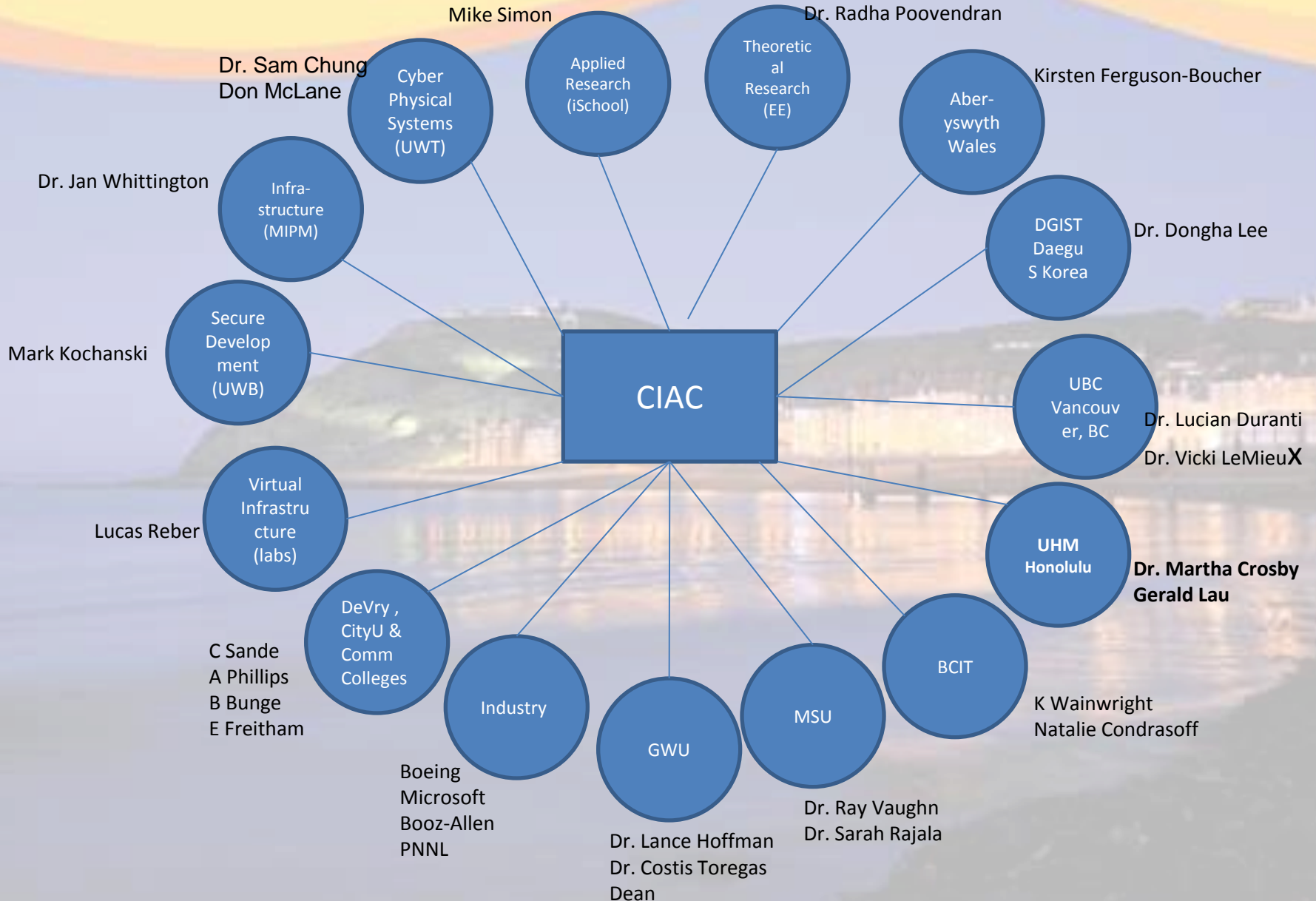
## Private Companies

KPMG  
DeLoitte  
PW

## Entrepreneurs

Creation Logic  
2B3D  
IO Active  
Intellius  
ZANTZZ

# CIAC Network of Collaborators





# References

- Extensive cloud computing and RM literature review  
<https://docs.google.com/Doc?docid=0AUMD4SCCg7uaZGRxczNybnfMTZjODM4bXhmNw&hl=en>
- Online resources have been bookmarked in Delicious and are available at <http://www.delicious.com/nicoleschu/soacloud>
- Toolkit available on the ARA website  
[http://www.archives.org.uk/images/documents/Cloud\\_Comp\\_uting\\_Toolkit.pdf](http://www.archives.org.uk/images/documents/Cloud_Comp_uting_Toolkit.pdf)
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